

Attorney Docket No. 2002B140/2

Amendments to the Specification:

Please replace paragraph [00324] with the following amended paragraph:

[00324] Seven samples were made with dimethylsilylbis(indenyl)hafnium dimethyl and dimethylsilyl(tetramethylcyclopentadienyl)(cyclododecylamido)titanium dimethyl ~~at a catalyst mix of about 80.0 molar percent~~ over a range of temperatures. The polymerization reactions followed the general procedure described above. The detailed experimental conditions and results are presented in Table 3. The data show that temperature has appreciable effects on crystallinity, Mw, Mw/Mn, and level of branching. The population can also be manipulated through reaction temperatures since the reaction kinetics of each catalyst has unique response to polymerization temperatures.

Please replace paragraph [00327] with the following amended paragraph:

[00327] Five samples were made with dimethylsilylbis (indenyl) hafnium dimethyl and dimethylsilyl(tetramethylcyclopentadienyl)(cyclododecylamido)titanium dimethyl ~~at a catalyst mix of 75 mol.% and~~ over a range of temperatures from 85 to 105°C, following the general procedure described above with the exception that a small quantity of 1,9-decadiene was fed as the diolefin monomer along with propylene as the alpha-olefin monomer. The detailed experimental conditions and results are presented in Table 7.

Please replace paragraph [00330] with the following amended paragraph:

[00330] Four samples were made with rac-dimethylsilylbis(2-methylindenyl)zirconium dimethyl and dimethylsilyl(tetramethylcyclopentadienyl)(cyclododecylamido)titanium dimethyl at a temperature of 80°C ~~and over a range of catalyst from 74 to 84 mol.%,~~ following the general procedure described above with the exception that a small quantity of 1,9-decadiene was fed as the diolefin monomer along with propylene as the alpha-olefin monomer. The detailed experimental conditions and results are presented in Table 10.

Please replace paragraph [00331] with the following amended paragraph:

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[00331] Six samples were made with rac-dimethylsilylbis(2-methyl-4-phenylindenyl)zirconium dimethyl and dimethylsilyl-(tetramethylcyclopentadienyl)(cyclododecylamido)titanium dimethyl at a temperature range of 80 to 95°C and a catalyst mix of about 58 molar percent, following the general procedure described above with the exception that (1) a small quantity of 1,9-decadiene was fed as the diolefin monomer along with propylene as the alpha-olefin monomer; (2) A small amount of hydrogen was also fed in the reactor. The detailed experimental conditions and results are presented in Table 11. Examples 52-57 show that addition of hydrogen can effectively manipulate Mw, Mw/Mn, crystallinity, the ratio of crystalline phase to the amorphous phase, in addition to the control obtained through catalyst selections and process conditions such as temperatures.

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